2A7

Cunningham Radiotron RCA-2A7

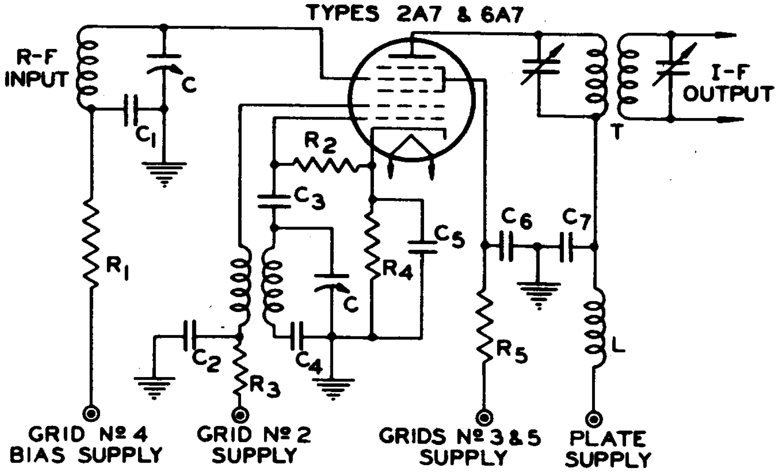
PENTAGRID CONVERTER

Heater	Coated Unipotential Cathode	
Voltage	2.5	a-c or d-c volts
Current	0.8	amp.

For further data, see Type 6A7. The 6A7 and 2A7 are identical except for heater rating.

TYPICAL PENTAGRID CONVERTER CIRCUIT

TYPES 2A7 & 6A7



C = GANGED TUNING CONDENSER (40 TO 350 $\mu\mu f$)
C_1, C_2, C_5, C_6, C_7 = 0.1 μf
C_3 = 0.00025 μf
C_4 = SEE TABLE BELOW
R_1 = 250 000 OHMS, 0.1 WATT
R_2 = 10 000 - 50 000 OHMS, 0.1 WATT
R_3 = OSCILLATOR-ANODE (GRID № 2) VOLTAGE-DROPPING RESISTOR
R_4 = 150-300 OHMS, 0.1 WATT
R_5 = SCREEN (GRIDS № 3 & 5) FILTER RESISTOR
L = 60-MILLIHENRY R-F CHOKE
T = 465-KC I-F TRANSFORMER

Cunningham Radiotron

TYPES 2A7 AND 6A7

TYPICAL PENTAGRID CONVERTER CIRCUIT

COIL DESIGN DETAILS

(continued from preceding page)

FREQUENCY BAND MEGACYCLES	0.15 TO 0.40		0.55 TO 1.5				1.5 TO 4.0		4.0 TO 10		10 TO 25	
ASSEMBLY Nº	1		1		2		2		3		3	
	TURNS	WIRE #	TURNS	WIRE #	TURNS	WIRE #	TURNS	WIRE #	TURNS	WIRE #	TURNS	WIRE #
R-F COIL (L_1)	422	36 SSE	116	30 SSE	146	32 ENAM	36.2	30 ENAM	10.1	30 ENAM	4.4	20 ENAM
OSC. GRID COIL (L_2)	198	36 SSE	80	30 SSE	92	32 ENAM	30.9	30 ENAM	9.7	30 ENAM	4.3	20 ENAM
OSC. PLATE COIL (L_3)	60	36 SSE	30	30 SSE	20	32 ENAM	12	30 ENAM	12	36 ENAM	6	36 ENAM
OSC. TRACKING COND. (C_4)	117 μμf		400 μμf				1070 μμf		2900 μμf		7300 μμf	

Nº 1	Nº 2	Nº 3
MULTI-LAYER COILS	SINGLE-LAYER COILS	SINGLE-LAYER COILS

